

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference LU6073/CB	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/13553	International filing date (day/month/year) 02/12/2003	(Earliest) Priority Date (day/month/year) 06/12/2002
Applicant BASELL POLYOLEFINE GMBH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13553

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C08F4/64 C07F17/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
 IPC 7 C08F C07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 743 317 A (HOECHST AG) 20 November 1996 (1996-11-20) Claims 2,6-7; formulae (II) and (G); p. 7, 1. 18; p. 8, 1. 56; Scheme on p. 11-12	1-9
X	WO 02/18397 A (SCHULTE JOERG ;BINGEL CARSTEN (DE); SCHOTTEK JOERG (DE); BASELL PO) 7 March 2002 (2002-03-07) cited in the application Claims 1-6; formulae (I) and (VI); p. 16, 1. 3-p. 29, 1. 33; examples 1-3,6-8	1-9
X	WO 98/40419 A (FISCHER DAVID ;GOERES MARKUS (DE); TARGOR GMBH (DE); BIDELL WOLFGA) 17 September 1998 (1998-09-17) Claims 1-7; formula (I); p. 6, 1. 36; p. 8, 1. 37	1-9

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

26 April 2004

Date of mailing of the international search report

28.05.2004

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13553

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/40129 A (BOHNEN HANS ; TARGOR GMBH (DE); FRITZE CORNELIA (DE)) 12 August 1999 (1999-08-12) Claims 9-14; formula (I); p. 11, 1. 21-22, 27; p. 15, 1. 2-16 -----	1-9
X	EP 0 576 970 A (HOECHST AG) 5 January 1994 (1994-01-05) Claims 1-7; formula (I) and (G); process on p. 9-10; examples G and 22 -----	1-9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 03/13553

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1(part), 2, 3(part), 4, 5-9(part)

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1(part), 2,3(part),4, 5-9(part)

Biscyclopentadienyl transition metal compounds substituted in 4-position by a cyclic moiety for use as catalysts in the polymerization of olefins

2. claims: 1,3,5-9 (all in part)

Fused biscyclopentadienyl transition metal compounds for use as catalysts in the polymerization of olefins

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/13553

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0743317	A 20-11-1996	DE 19517851 A1 AT 222916 T BR 9602275 A CA 2176687 A1 DE 59609586 D1 EP 0743317 A2 ES 2182927 T3 JP 8333379 A US 5840947 A	21-11-1996 15-09-2002 13-01-1998 17-11-1996 02-10-2002 20-11-1996 16-03-2003 17-12-1996 24-11-1998
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/13553

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		ES 2112355 T3	01-04-1998
		ES 2169288 T3	01-07-2002
		FI 932961 A	28-12-1993
		JP 6100579 A	12-04-1994
		RU 2118961 C1	20-09-1998
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		US 6255506 B1	03-07-2001
		US 5786432 A	28-07-1998
		US 5770753 A	23-06-1998
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		US 2001021755 A1	13-09-2001
		ZA 9304577 A	01-02-1994